

20. An electric motor as set forth in claim 19, wherein the electromagnetic brake means includes pins disposed in a corresponding recess in the wall segments to support the brake element and to form the axis about which the brake element pivots.

21. An electric motor as set forth in claim 20, wherein the axis, about which the brake element pivots, is parallel to the axis of rotation of the rotor.

23. An electric motor as set forth in claim 22, wherein the brake element is formed as a multi-arm lever with one brake arm and one disengagement arm, wherein the brake arm is exposed to the braking force and the disengagement arm exerts a disengagement force on the brake element which is opposite to the braking force when current is flowing through the stator winding.

25. An electric motor as set forth in claim 23, wherein a face of the disengagement arm on the brake element adjoins the pole face of the stator and is positioned a greater distance from the axis about which the brake arm pivots than a separating surface on the

brake arm.

26. An electric motor as set forth in claim 23, wherein the disengagement arm of the brake element includes a portion of the pole face to form an annular gap with the rotor to define a motor air gap.

27. An electric motor as set forth in any one of claims 23, wherein the brake arm is located in front of the axis about which the brake arm pivots when viewed in the direction of rotation of the rotor and the disengagement arm is located behind said axis in the direction of rotation of the rotor.

28. An electric motor as set forth in claim 24, wherein the brake arm comprises a brake lining which has little or no magnetic conductivity.

29. An electric motor as set forth in claim 23, wherein the brake arm has a plurality of blind holes each of which supports one end of a compression spring providing the braking force.

30. An electric motor as set forth in claim 29, wherein the other end of the compression spring is supported on a steady which is attached to the stator.

31. An electric motor as set forth in claim 23, wherein the disengagement arm includes a separating face having a short-circuited turn formed in said face.

32. An electric motor as set forth in claim 18, wherein the electric motor has a pole pair comprising two poles in which each pole contains an electromagnetic brake means.

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